

First Alert®

Model No.: FAS-124

User's Manual 4 Channel Monitor and Camera Security System



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IMPORTANT!

Read this carefully before installing or using these units.

DANGER-HIGH VOLTAGE unit should only be opened by an authorized technician if service is needed.

Safety Precautions

For correct and safe operation of this system it is essential installers, end-users and service technicians follow all safety procedures outlined in this manual. Specific Warning and Caution statements (and/or symbols) are marked on the units where needed.

Warning and Caution Statements

“WARNING” indicates a situation where failure to follow proper procedures can cause personal injury.

“CAUTION” indicates a situation where failure to follow proper procedures can cause damage to the equipment.

PLEASE READ CAREFULLY AND SAVE

This manual contains important information about this product's operation. If you are installing this product for use by others you must leave this manual – or a copy – with the end user.

Basic Safety Information

Before installing this unit, read all the Cautions and Warnings listed below.

▲ DANGER!

ELECTRICAL SHOCK OR FIRE HAZARDS!

- **ELECTRICAL SHOCK HAZARD. DO NOT TRY TO SERVICE THE UNIT YOURSELF. SERVICE SHOULD BE HANDLED BY QUALIFIED TECHNICIANS.** Servicing the monitor or camera yourself will void your warranty.
- Do not use with extension cords or other types of AC adapters. The unit may not work properly. Use only the AC adapter provided, and always plug the AC adapter directly into a standard 120 VAC outlet.
- Do not place cords from the AC adapter or the sensors where they can be pinched or stepped on. Protect the cords by keeping them out of the way of children, pets, and routine household traffic.
- Do not place heavy objects on cords, or cover cords with rugs or carpet.
- **NEVER** immerse any component in water, and do not spray cleaners or solvents on the unit. Unplug both components before cleaning. When cleaning, use a damp, lint-free cloth only.

▲ WARNING!

- Do not expose the monitor or camera to excessive heat, cold, or moisture.

▲ CAUTION!

- Connect this unit **ONLY** to other compatible units. Do not connect it to any other type of alarm or auxiliary device. Connecting anything else to this unit may damage it or prevent it from operating properly.
- Do not expose the monitor or camera to excessive heat, cold, or moisture.
- Do not expose the monitor or camera to rain or direct sunlight.
- Make sure all cables are connected properly. Improper cable connections may damage the camera and monitor.
- Handle the monitor and camera with care. Do not locate units in locations subject to shaking or vibration.
- Do not locate the monitor near radiators, ovens or other heat generating appliances and equipment.
- Leave at least a 2" space between the monitor and walls, cabinets and/or other objects to allow air circulation around the unit.
- **TURN OFF** power to the television or monitor and unplug the AC adapter from the wall outlet when connecting the camera.
- This product is equipped with a polarized AC line plug (one blade wider than the other). As a safety feature, this plug will only fit into the wall outlet one way. If you cannot insert the plug fully into an outlet, turn the plug the other way and try again. If this does not work, **DO NOT** try to force the plug into the outlet or attempt to defeat the safety feature on the polarized plug.
- Do not paint over the camera.

Security System Features

Your FAS-124 Kit Contains:

- (Qty 1) 12" B/W 4-Channel Signals Auto Switching Monitor
- (Qty 1) 1/3" B/W Camera
- (Qty 1) AC/DC Adapter
- (Qty 1) 60-foot

System Features:

Your Camera and Monitor Security System features:

12" MONITOR:

- **High resolution display.**
- **Four channel Audio/Video input, single channel simultaneous output**
Allows you to connect 4 external cameras, and view them on one monitor.
- **AUTO SWITCHING**—When more than 2 cameras are connected, the monitor automatically switches among the camera feeds of the cameras. This keeps you informed of what is going on in both locations without having to manually switch back and forth among cameras.
- **AUTO-SWITCH TIME SET**—You can set the time interval that the monitor automatically switches cameras. This can be set anywhere from 5-20 seconds.
- Built-in power jacks for 4 cameras.
- 50 Hz - 60 Hz switch.
- 120V/60 Hz adapter.

BLACK AND WHITE CAMERA:

- **Microphone:** Built-in microphone picks up sound at the camera location and transmits it to the television or monitor.
- **Camera Port:** DIN port for connecting the camera to the television or monitor.
- **Wide Angle Lens:** Allows view of a wide area.

Specifications

MONITOR

Monitor Screen Size: 12" (Diagonal).

Horiz. Resolution: 700 Lines (Center)
500 Lines (Corner)

Frequency: EIA: Horiz.: 15750 (+/-400) Hz
Vertical: 60 Hz

CCIR: Horiz.: 15625 +/-400 Hz
Vertical: 50 Hz

Input Signal: 0.5~2 Vp-p Composite
Video SYNC Negative

Input Impedance: 75 Ohm DIN or RCA
connector

Power Supply: AC/DC Adapter
(18 VDC, 1.5 A)

Power Consumption: Less than 40W

Housing: Plastic construction

Operating Temperature: 15°F to 104°F

Dimensions: 16" (395mm) L x 14"
(360mm) W x 14" (350mm) H

Weight: 13 lbs (6 kg)

CAMERA

Integrated Lens: 0.15" (3.6mm)

Resolution: 380 Horizontal TV lines

Power Consumption: 1.3 Watts

Auto Iris Shutter: 1/60-1/100,000

Min. Illumination: 0.05 lux

Infrared LED's: 6

Dimensions: 2.4" (60 mm) x 3.3" (83mm)
x 2.0" (51 mm)

Weight: 10.5 oz. (300g)

FCC Warning

INFORMATION TO USER

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been tested and found to comply with the limits for a Class B digital device in accordance with Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Re-orient the TV/radio antenna.
- 2) Relocate the Receiver away from the TV/radio receiver.
- 3) Plug the Receiver into a different wall outlet so that the Receiver is on a different branch circuit.
- 4 If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communication Commission helpful: "How to Identify and Resolve TV Interference Problems." This booklet is available from the US Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4

FCC NOTICE

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the users authority to operate the equipment. Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range. A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies. Changes or modifications to the device may void FCC compliance.

Infrequently used radio links should be tested regularly to protect against undetected interference or fault.

Other Important Information

Conversations and images, even from rooms near the camera, may be broadcast. To protect the privacy of your home, always turn off the camera(s) when not in use. JJC, Inc. shall not be liable for any misuse or use contrary to local, state or federal laws.

IMPORTANT!

ACCESSORIES—Do not place video monitor or equipment on an unstable cart, stand or table. The video monitor or equipment may fall causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



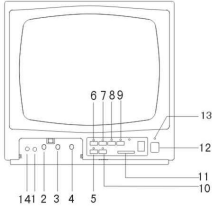
Video monitor equipment and cart combinations should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

VENTILATION—Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the video monitor or equipment and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video monitor on a bed, sofa, rug, or other similar surface. Video monitor or equipment receiver should never be placed near or over a radiator or heat register. Video monitor or equipment receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Control Locations

Monitor Control Locations

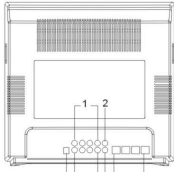
Four-channel monitor front view



(FIG-1)

1. 50/60Hz system switch
2. Field frequency adjustment
3. Brightness adjustment
4. Contrast adjustment
5. AUTO key
6. G1 key
7. G2 key
8. G3 key
9. G4 key
10. TIME key
11. Volume adjustment
12. Power on/off button
13. Power on/off indicator
14. Earphone socket

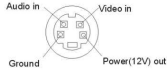
Four-channel monitor back view



(FIG-2)

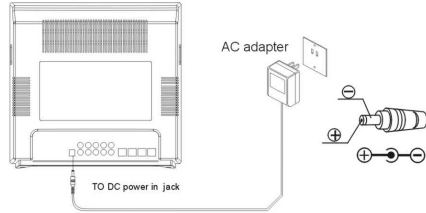
1. Video input jack(RCA connector)
2. Video output jack(RCA connector)
3. DC power input jack
4. Audio input jack(RCA connector)
5. Audio output jack(RCA connector)
6. Video/Audio input jack(DIN connector)

* DIN jack input diagram



Power system

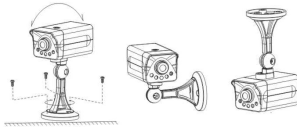
- * Using adapter, its output voltage must be 18V,current be more than 2.4A otherwise will effect the performance
- * Pay attention to DC+ and - terminals to be accordance with the unit.



(FIG-3)

Camera:

Camera



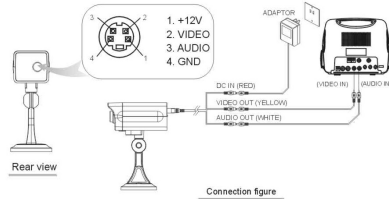
Installation figure

Camera Features

- 1) Super high resolution and sensitivity
- 2) Integrated lens can be adjusted
- 3) Low consumption and excellent stabilization
- 4) Compact and easy to install
- 5) Fit for the security system of stores, banks, hotels, schools, factories, and apartments

Technology Specification

Sensor		B/W CCD CAMERA
Pixels	EIA	512(H)X492(V)
	CCIR	500(H)X562(V)
Signal Noise Ratio		≥48dB
Min Illumination	With LED	0 LUX
	Without LED	0.1 LUX
LENS		f=3.6mm Approx 92°
Resolution		420TVL
Audio function		With Audio Function
Power Supply		12V DC +10%
Power Consumption		<2W



Installation

1. Put plastic sticks into 3 holes drilled in selected place and fix camera on the stick
2. Vertical & Reverse installment be suitable on the ceiling.
3. Camera & Mounting bracket are adjustable(360°)
4. Connect camera to monitor according to above diagram
5. Energize camera according to above diagram

Notices



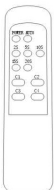
Do not expose the camera under sunlight or high temperature place



Do not put the camera in a moist place

Remote

Operation of remote control



1. Press **POWER** key to turn on/off machine;
2. Press **AUTO** key to select manual/auto;
3. Press any key of **C1** ~ **C4** to select channel1~channel4 accordingly.
4. Press **2S** , **5S** , **10S** , **15S** , **20S** key to select the auto switching time length from 2 seconds to 20 seconds respectively.

Specifications

Power supply:	~120V/60Hz = 15-18V 2.4A
Power consume:	≤ 36W
weight:	6Kg (Approx)
Size:	350×360×340mm

Features

- * Super high resolution display;
- * MCU control;
- * Four channels Audio/Video manual/auto switcher;
- * One channel Audio/Video synchronous output;
- * Auto switching time length setting function;
- * Auto identifying/alarming/skipping function;
- * 50/60Hz system switch;
- * Earphone for private listening;
- * DC power supply;
- * RCA/DIN Audio/Video jack selectable.

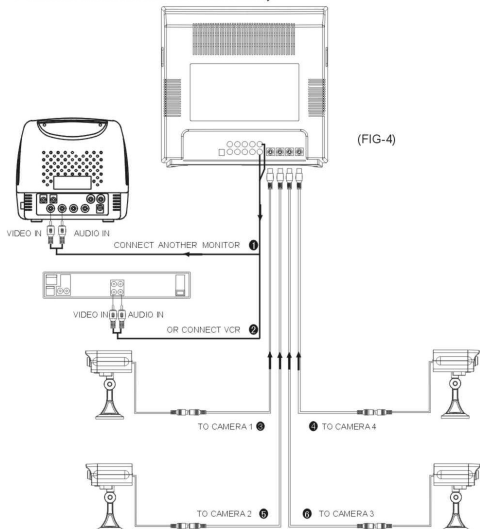
Caution

- * Please check if the power supply is in accordance with this unit before using;
- * Please do not leave this unit at too hot, stuffiness or moist places;
- * Please do not expose this unit in rain or under sunlight;
- * Check if the cables are connected correctly, otherwise will effect its performance or damage the unit;
- * High voltage inside, only authorized technicians can open it;
- * Please unplug the power supply when the unit is not working.

Connection & Operating

Four-channel monitor system connection

- * Connect four channel video and Audio input signals to the socket accordingly.
- * Output signal from this monitor to another monitor as terminal display or to VCR for recording.
- * If using DIN connector, please pay attention to DIN signal diagram.
- * Cable for DIN connector matched additionally.



Four-channel monitor how to operate

1. Connect the cable according to the diagram (FIG-4).
 2. Supply the power according to the diagram (FIG-3).
 3. After supplied the power, indicator is on and monitor into standby situation.
 4. Press any key of **C1** ~ **C4** then machine is on and corresponding video input signals switch on. As if press **2S** key, the machine is turned on and VIDEO2 input signals switch on;
 5. After turning on the unit, the unit is in hand-operation situation. Press **C1** ~ **C4** to select VIDEO1~VIDEO4, corresponding indicator is red.
 - ① Alarm function: the unit used LED alarm mode. If one channel have not video input signals, the unit identify automatically and corresponding indicator is green and holding;
 - ② Automatic switch function: Press **AUTO** key, then corresponding indicator is on and the unit is in automatic recycle situation. Signals switch along VIDEO1→VIDEO2→VIDEO3→VIDEO4→VIDEO1.....
 - ③ Automatic switch time set: 2, 5, 10, 15, 20 seconds can be chosen by press **TIME** key, until corresponding indicator blinking for five times.
- NOTE: After the time is set, press **AUTO** key, then the unit will switch automatically according to the switch time we set.**
- ④ Automatic detection and skip function: When the unit is in automatic recycle situation, if a certain video input signals disappear suddenly, corresponding indicator is green and holding. At the same time, the unit switch to next channel video signals quickly. For example, if VIDEO 2, VIDEO 3 have not input signals and VIDEO 1, VIDEO 4 have input signals, the unit will switch along VIDEO1→VIDEO4→VIDEO1→VIDEO4. The unit will skip over VIDEO 3, VIDEO 2 and the corresponding indicator of VIDEO 2, VIDEO 3 is green and holding.
 6. Volume can be adjusted through volume knob.
 7. Adjust field frequency, brightness and contrast knob to get best picture effect.
 8. When the system of input video signals is different, Please note if the 50/60Hz switch button is at the right place.

Care and Maintenance

To keep your Camera and Monitor Security System operating properly you must:

- Keep your monitor and camera dry. Moisture can damage the units. If the monitor or camera does get wet, immediately unplug the AC adapter from the wall outlet. Press the power switch on the monitor to OFF. Make sure the monitor or camera is thoroughly dry **before** you reconnect the AC adapter back into the wall outlet and restore the power.
- Locate or store the monitor and camera in a normal temperature environment. Extreme temperatures can shorten the life of electronic devices.
- Handle the monitor and camera carefully when moving or storing them. Dropping or shaking can seriously damage the units.
- Occasionally wipe the camera and monitor with a damp cloth to remove dust and dirt.

▲WARNING!

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the monitor and camera. Use of these products can damage the units.

- Do not locate the monitor and camera in dirty, dusty, or greasy areas. Dirt and dust can get inside the units and cause premature wear.

We are confident you will enjoy your new First Alert® Home Security System. If you have any questions that cannot be answered by reading this manual, please contact our Consumer Affairs Department at (800) 226-9671.

Troubleshooting

Try using this troubleshooting guide before calling for service. Perform the checks described below.

Problem...	You Should...
Shrinking picture	Check the condition of the power source on the monitor.
Multiple image in picture	Adjust the Vertical Hold knob on the monitor.
Picture is too dark or too light	Adjust the Contrast or Brightness knob on the monitor.
Picture rolls up or down	Adjust the Vertical Hold knob on the monitor.
Picture, but no sound	Adjust the Volume knob on the monitor.
Sound, but no picture	Adjust the Contrast or Brightness knob on the monitor.
Poor picture quality	1. Clean the camera lens. 2. Adjust the Contrast or Brightness knob on the monitor.
No power	Check the AC adapter connection at the wall outlet.

If you are still having problems, contact the Consumer Affairs Division at 1-800-226-9671, 9:30 AM to 5:00 PM, Eastern Standard Time, Monday through Friday.

1-Year Limited Warranty

Coverage: JJ Communications, Inc. ("JJC") the licensee of First Alert® brand products, warrants that for a period of 1 year from the date of purchase, this product will be free from defects in material and workmanship. JJC, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. JJC dealers, service centers, or retail stores selling JJC products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than JJC or an authorized service center. Further, the warranty does not cover acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

JJC shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for to the duration of the above warranty. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province.

How to Obtain Warranty Service

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-226-9671, 9:30 AM to 5:00 PM, Eastern Standard Time, Monday through Friday. To assist in serving you, please have the model number and date of purchase available when calling.

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